C O N T E N T S

Volume 11

Number 1, January 1979

Commercial export of bovine embryos from Canada to Europe

K.N. Bedirian, M.S. Mills, P.J. Bligh, R. Geroldi and B.A. Kilmer 3

Viral infections of mammalian preimplantation embryos

R.A. Bowen 5

Embryo transfer in fertile and infertile cows

R.P. Elsden, L.D. Nelson and G.E. Seidel, Jr. 17

Embryo transfer in swine

B.N. Day 27

Review of induction of superovulation and embryo transfer in the equine

R.H. Douglas 33

Embryo recovery in the swine

J.E. James and P.D. Reeser 47

Embryo transfer in the nonhuman primate, feline and canine

D.C. Kraemer, B.L. Flow, M.D. Schriver, G.M. Kinney and J.W. Pennycook 51

Bovine embryo transfer in Germany

U. Schneider and J. Hahn 63

Effect of the bovine viral diarrhea (BVD) virus on preimplantation bovine embryos: A preliminary study

L.F. Archbald, R.W. Fulton, C.L. Seger, F. Al-Bagdadi, and R.A. Godke 81

Embryo recovery from prepuberal gilts

Robert D. Baker 91

Library
Ohio Agricultural Research & Development Center
Wooster, Ohio 44691

48507

Exposure of fertilized porcine ova to pseudorabies virus

S.R. Bolin, L.J. Rumnels, C.A. Sawyer, K.J. Atcheson and D.P. Gustafson 92

Effect of bovine serum albumin and CA++ on capacitation of bovine spermatozoa

E.W. Byrd, L.L. Goodeaux, S.H. Pool, and R.A. Godke 93

Femininity in cattle and superovulatory response

J.K. Critser, F.C. Gunsett, R.F. Rowe, J.J. Rutledge and O.J. Ginther 94

Factors affecting ova transfer in limousin, Maine-Anjou and Simmental cattle

J.K. Critser, F.C. Gunsett, R.P. Winch, C.L. Eilts and O.J. Ginther 95

Use of an equine pituitary extract with and without HCG to superovulate cows

M.L. Danner, W.D. Oxender and R.L. Fogwell 96

Standing paralumbar approach for surgical embryo transfer in cattle

J.F. Evans, G.R. Hesseltine, and R.M. Kenney 97

Plasma progesterone levels for diagnosis of anestrous beef cattle prior to $PGF_{2\alpha}$ treatment

R.A. Godke, R.H. Ingraham and L.F. Archbald 98

Current status of embryo-transplantation in Denmark

Torben Greve and Henrik Lehn-Jensen 99

Effect of various concentrations of prostaglandin $F_{2\alpha}$ (THAM) on bovine spermatozoa *in vitro*

B.M. Guillory, S.H. Pool, E.W. Byrd and R.A. Godke 100

Effects of FSH/LH ratio of PMSG on ovulatory responses

W.D. Humphrey, B.D. Murphy, D. Rieger, R.J. Mapletoft, J.G. Manns and P.B. Fretz 101

The use of progesterone releasing intravaginal devices in the superovulation of donor cows

Richard N. Kunkel 102

Culture of blastomeres isolated from four and eight-cell porcine embryos

A.R. Menino, Jr., and R.W. Wright, Jr. 103

Superovulation of cows using follicle stimulating hormone and prostaglandin $F_{2\alpha}$

L.D. Nelson, G.E. Seidel, Jr., R.P. Elsden and R.A. Bowen 104

The effect of two levels of PMSG on ovulation in goats

R.S. Ott, D.R. Nelson, T.F. Lock and J.E. Hixon.....105

Effect of dexamethasone and confinement stress on estrous cycle length in beef heifers

S.H. Pool, R.A. Godke and R.H. Ingraham 106

Nonsurgical embryo transfer in cattle

R.J. Rowe, J.K. Critser and O.J. Ginther 107

Recent results of frozen and thawed bovine embryos

U. Schneider and J. Hahn 108

Effects of estrous cycle characteristics on pregnancy rates of bovine recipients

G.E. Seidel, Jr., N.E. Okun, L.D. Nelson, and R.P. Elsden 109

Use of an oral progestin for estrus synchronization in mares

E.L. Squires, W.B. Stevens, D.E. McGlothlin, and B.W. Pickett 110

Number 2, February 1979

The effect of scrotal insulation on spermatozoal morphology and the rates of spermatogenesis and epididymal passage of spermatozoa in the bull

A.D. Ross and K.W. Entwistle 111

34 87 82 0SU3 1 603 XL 2972

Peripheral plasma levels of progesterone in pregnant goats and in pregnant goats treated with prostaglandin $F_{2\alpha}$

W.T.K. Bosu, J.A. Serna Garibay and C.A.V. Barker.....131

Non-surgical recovery of eggs from single ovulating bovines

J.N. Shelton, T.D. Heath, K.G. Old and G.E. Turnbull 149

Control of estrus in dairy cows with a synthetic analogue of prostaglandin F_2 alpha

J.F. Roche and D.J. Prendiville 153

Perineal hypospadias in two related bull calves: A case report

J. Kumi-Diaka and D.I.K. Osori 163

A 14/28 dicentric Robertsonian translocation in a Holstein cow

S.M. Ellsworth, S.R. Paul and T.D. Bunch 165

Number 3, March 1979

An instrument for transcervical recovery of embryos from heifers

J.-P. Ozil, Y. Heyman and J.-P. Renard 173

Steroid levels after intramuscular injection of radioactive estradiol-17β, estrone, progesterone and testosterone in the bovine

R.D. Randel, R.E. Short and R.A. Bellows 185

Synchronization of estrus in beef heifers with a Norgestomet implant and prostaglandin $F_{2\alpha}$

G. Heersche, Jr., G.H. Kiracofe, R.C. DeBenedetti, S. Wen and R.M. McKee 197

Contagious Equine Metritis: A review

John P. Hughes 209

Suppression of lymphocyte reactivity *in vitro* by porcine allantoic and amniotic fluids

Finnie A. Murray, Vickie Zurcher and A.P. Grifo, Jr.....217

...131 Variables associated with peripartum traits in dairy cows. I. Effect of dietary forages and disorders on voluntary intake of feed, body weight and milk yield

Claudie N. Zamet, V.F. Colenbrander, C.J. Callahan, B.P. Chew, R.E. Erb, and N.J. Moeller 229

...149 Variables associated with peripartum traits in dairy cows. II. Interrelationships among disorders and their effects on intake of feed and on reproductive efficiency

...153 Claudie N. Zamet, V.F. Colenbrander, R.E. Erb, C.J. Callahan, B.P. Chew and N.J. Moeller 245

...163 Variables associated with peripartum traits in dairy cows. III. Effect of diets and disorders on certain blood traits

Claudie N. Zamet, V.F. Colenbrander, R.E. Erb, B. Chew and C.J. Callahan 261

...165 Effect of mating stimuli on LH release in bulls

R.E. Short, R.D. Randel and R.A. Bellows 273

Number 4, April 1979

...173 Testicular degeneration and libido loss in beef bulls experimentally inoculated with *Anaplasma marginale*

Brinton L. Swift, John D. Reeves III, and George M. Thomas 277

...185 Coyote laparotomy: *In vivo* determination of reproductive success

J.S. Green, D.A. Barnum, N.L. Gates and J.T. Flinders 291

...197 Bovine testicular measurements as indicators of reproductive performance and their relationship to productive traits in cattle: A review

...209 G.H. Coulter and R.H. Foote 297

The relationship between ATP content and motility of bovine spermatozoa

...217 J.A. Foulkes and B.J. MacDonald 313

Estrone concentration in the peripheral plasma of pregnant and nonpregnant gilts

H.D. Guthrie and D.R. Deaver 321

Effect of Norgestomet on peripheral levels of progesterone and estradiol-17β in beef cows

W.M. Moseley, D.W. Forrest, C.C. Kaltenbach, and T.G. Dunn 331

Erratum 342

Number 5, May 1979

Relationship between plasma progesterone in late gestation and the incidence of dystocia in Romney ewes

T.W. Knight and Susan H. Rowe 345

Effects of gonadotropins on oocyte maturation and progesterone production by porcine ovarian follicles cultured *in vitro*

B. Meinecke and S. Meinecke-Tillmann 351

Influence of 48-hour calf separation on milk production and calf growth in range cows

T.W. Beck, R.P. Wettemann, E.J. Turman and R. Totusek 367

Continuous collection and analysis of bovine oviduct fluid: Preliminary results

Larry G. Paisley and W. Duane Mickelsen 375

Effects of a systemic application of human chorionic gonadotropin, gonadotropin-releasing hormone analog and bovine anterior pituitary gonadotropin in cows with cystic ovarian disease

T. Nakao, M. Tsurubayashi, S. Horiuchi, T. Nomura, Y. Ishibashi, M. Kubo and K. Kawata 385

Oestrus control and early pregnancy diagnosis in the swamp buffalo: Comparison of enzymeimmunoassay and radioimmunoassay for plasma progesterone

Maneewan Kamonpatana, Dick F.M. van de Wiel, Wim Koops, Dumrong Leenanuruksa, Chumpen Ngramsuriyaroj and Surachet Usanakornkul 399

Number 6, June 1979

Progesterone and LH concentrations in ewes after ICI 80996, an analogue of $PGF_{2\alpha}$, at two different stages of the breeding season

Stella Acritopoulou 411

Effects of early weaning on reproductive efficiency in beef cows

C.A. Pimentel, J.C. Deschamps, J.A.F. de Oliveira, R. Cardelino and M.A. Pimentel 421

Metabolism of estrone sulfate in the pregnant sheep

Charles P.W. Tsang and A.J. Hackett 429

Pathogenicity of *Chlamydia psittaci* after serial passage in chicken embryos

Donald G. Waldhalm, Richard F. Hall, William A. Meinershagen and D. Arleen DuBose 441

Comparative luteolytic activity of estradiol cyclopentylpropionate and prostaglandin $F_{2\alpha}$ in diestrous cows

B.E. Seguin 445

Induction of LH surges with 17β estradiol in prepuberal beef heifers: An age dependent response

R.B. Staigmiller, R.E. Short and R.A. Bellows 453

AUTHOR INDEX 461

SUBJECT INDEX 463